TABLE 1

FORMULAS AND TABLES FOR ARCH BRICK

Firebrick Arches; Rise, Length, Radius, for Chord of Unity

No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
Rise or Middle Ordinate Decimal of	Logarithm or Rise or Middle Ordin	Rise or Middle Ordinate Inches per 1 Ft	Arc	Length of Arc	Logarithm of Length of Arc	Radius of Arc	Logarithm of Radius of Arc
v	log *v*	*v*	*a*, Degrees, Minutes and •	*b* or *c*	log *b* logc	*r* or r^r	logr logr'
0 0300	8		13-44-	*1*	0	4	0
0.0313	8.4948	t	14-19-	1.0026	0.0011	4.009	0.6030
0.0328	5		42	1	3	2	6
0.0339	8.5296	if	15-30-	1.0030	0.0013	3.704	0.5867
0.0350	1	'"ft	52	5	2	3	1
0.0365	8.5440	if	16-01-	1.0032	0.0014	3.588	0.5549
0.0391	7		00	7	2	9	6
0 0400	8.5618		16-19-	1.0035	0.0015	3.442	0.5369
0.0417	8.6197	i	19-04-	1.0046	0.0019	3.025	0.4797
0.0443	9	&	11	2	2	4	8
0 0450	8.6461		20-11-	1.0052	0.0022	2.853	0.4553
0.0469	8.6709	ft	21-26-	1.005	0.0025	2.688	0.4295
0.0493	4	'"»'	23	85	3	7	4
0.0495	8.6923		22-30-	1.0064	0.0027	2.562	0.4087
0 0500	7		00	5	9	9	3
0.0521	8.7167	I	23-47-	1.0072	0 .	2.425	0.3847
0.0547	0	ft	44	3	00313	4	6
0 0550	8.7378		24-58-	1.0079	0.0034	2.312	0.3640
0.0573	8.7580	&	26-09-	1 .	0.0037	2.210	0.3444
0.0599	9	If	01	00873	8	2	2
0.0600	8.777		27-19-	1.0095	0.0041	2.116	0.3256
0.0625	8.795	1	28-30-	1 .	0.0047	2.031	0.3077
0 0650	88	4	00	01088	0	4	6
0.0651	8.813	If	29-40-	1.0112	0.0048	1.952	0.2906
0 0658	61		22	7	7	7	3
0.0677	8.830	tt	30-50-	1.0121	0.0052	1.880	$\bar{0}.274\bar{2}$
0 0700	64		42	7	5	2	1